EMISSIONS
haracterization Approac

- Program to test 250 munitions
- Detailed Test Plans
- Firing and Sampling- (110 munitions tested)
- Fact Sheets and Health Risk Assessments (available for 40 munitions)
- Installation Guidance
- Database repository
- Model validation
- Publications (AP-42)

UXO Corrosion Considerations

- **Objective: Is UXO a source term for explosives?**
- **Data collected to date:**
  - 7 sites completed with 63 ordnance sampled
  - Ordnance age varies 17-80 years in soil
  - Casing thickness varies ~.2-.5 inches thick
  - Explosives found adjacent to four 60mm rounds (.2 inches thick and 60 years in wet soil)

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Range Technology / Design

Range Guidance Manual – Best Management Practices for Small Arms Ranges

Lead Mobility Pathways on Ranges

- **Lateral Migration/Storm water Runoff and Erosion – (Highest Priority)**
- **Leaching to Groundwater**
- **Airborne Particulate Lead**

Storm water management, erosion controls and management of bullet pockets is being applied at Ft. Jackson and USMA West Point.

****Final Product – Range Guidance Manual (BMPs) and designs incorporated into Huntsville Design Package (Training Circular-25-8)**

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Army Perchlorate Update

- **2002-USAEC investigated which munition items contained perchlorate (74 items)**
  - 2 simulator items contained the bulk of the perchlorate mass fired annually (67%) and had potential for replacement
- **2003- USAEC is funded to take the lead to investigate perchlorate replacement for these two items**

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RANGE INVENTORY
STATUS
UPDATE: 22 Jan 03

- **PHASE 1: Advance Range Survey (ARS) (Electronic Questionnaire) - Complete**
- **PHASE 2: A/I Inventory (Detailed operational range inventory) - Complete**
- **PHASE 3: CTT Inventory – All sites with UXO, discarded munitions, and munitions constituents outside of operational ranges.**
  - **Active Installations – 430 sites to be inventoried FUDS – 1,650 properties being inventoried over 3 years. Inventory data collected for 1,584 properties.**
  - **Ring 7 quarters, data collection complete at 254 sites. 135 sites have Final Reports.**
  - **BRAC Property – 63 sites being inventoried over 3 quarters, data collection complete at 62 sites, and 42 sites have Final Reports.**
  - **State-Owned/Operated NGB – 362 sites identified; working**